

Amendments to the Claims

1. (Currently Amended) A color cathode ray tube comprising:  
a panel of which an outer surface is substantially plane and an inner surface has a predetermined curvature; and  
a mask for selecting colors of electron beams incident from inside of the panel,  
in which a formula,  $0.3 \leq (R_{xe}/R_{xc}) \leq 0.75$  is satisfied,  
wherein the  $R_{xe}$  is an inner curvature radius at an edge of a long axis of the panel, and the  $R_{xc}$  is an inner curvature radius at a center of a long axis of the panel.

2. (Original) The color cathode ray tube of claim 1, wherein the inner curvature radius is gradually decreased from a center portion of the panel towards a peripheral portion of the panel.

3. (Original) The color cathode ray tube of claim 1, wherein the mask is formed of AK material.

4. (Currently Amended) ~~The color cathode ray tube of claim 1,~~  
A color cathode ray tube comprising:

a panel of which an outer surface is substantially plane and an inner surface has a predetermined curvature; and

a mask for selecting colors of electron beams incident from inside of the panel,

in which a formula,  $0.3 \leq (R_{xe}/R_{xc}) \leq 0.75$  is satisfied,

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wherein  $R_{xe}$  is an inner curvature radius at an edge of a long axis of the panel, and  $R_{xc}$  is an inner curvature radius at a center of a long axis of the panel,

wherein a formula,  $4.5 \leq (R_{xc}/USD) \leq 8.5$  is satisfied, and

wherein the USD is a diagonal size of an effective surface of the panel.

5. (Canceled)

6. (Currently Amended) The color cathode ray tube of claim 1,

wherein a USD of the panel is 500mm or less ~~[[than]]~~, and

wherein the USD is a diagonal size of an effective surface of the panel.

7. (Currently Amended) ~~The color cathode ray tube of claim 1;~~

A color cathode ray tube comprising:

a panel of which an outer surface is substantially plane and an inner surface has a predetermined curvature; and

a mask for selecting colors of electron beams incident from inside of the panel,

in which a formula,  $0.3 \leq (R_{xe}/R_{xc}) \leq 0.75$  is satisfied,

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wherein  $R_{xe}$  is an inner curvature radius at an edge of a long axis of the panel, and  $R_{xc}$  is an inner curvature radius at a center of a long axis of the panel, and

wherein a transmission ratio of a center portion of the panel is 45%~75%.

8. (Currently Amended) ~~The color cathode ray tube of claim 1,~~

A color cathode ray tube comprising:

a panel of which an outer surface is substantially plane and an inner surface has a predetermined curvature; and

a mask for selecting colors of electron beams incident from inside of the panel,

in which a formula,  $0.3 \leq (R_{xe}/R_{xc}) \leq 0.75$  is satisfied,

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wherein  $R_{xe}$  is an inner curvature radius at an edge of a long axis of the panel, and  $R_{xc}$  is an inner curvature radius at a center of a long axis of the panel, and

wherein an wedge ratio is 180%~220%.

9. (Original) The color cathode ray tube of claim 1, wherein the mask is formed of either Fe-Ni based alloy or Fe-Ni-Co based alloy.

10. (Canceled)

11. (Currently Amended) ~~The color cathode ray tube of claim 9;~~  
A color cathode ray tube comprising:  
a panel of which an outer surface is substantially plane and an inner  
surface has a predetermined curvature; and  
a mask for selecting colors of electron beams incident from inside of the  
panel,  
in which a formula,  $0.3 \leq (R_{xe}/R_{xc}) \leq 0.75$  is satisfied,  

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wherein  $R_{xe}$  is an inner curvature radius at an edge of a long axis of the  
panel, and  $R_{xc}$  is an inner curvature radius at a center of a long axis of the  
panel,  
wherein the mask is formed of either Fe-Ni based alloy or Fe-Ni-Co based  
alloy,

wherein a formula,  $4.5 \leq (R_{xc}/USD) \leq 6.5$  is satisfied, and  
wherein USD is a diagonal size of an effective surface of the panel.

12. (Currently Amended) The color cathode ray tube of claim 9,  
wherein a USD of the panel is 500mm or less than, and  
wherein USD is a diagonal size of an effective surface of the panel.

13. (Currently Amended) ~~The color cathode ray tube of claim 9;~~  
A color cathode ray tube comprising:  
a panel of which an outer surface is substantially plane and an inner  
surface has a predetermined curvature; and  
a mask for selecting colors of electron beams incident from inside of the  
panel,  
in which a formula,  $0.3 \leq (R_{xe}/R_{xc}) \leq 0.75$  is satisfied,  

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wherein  $R_{xe}$  is an inner curvature radius at an edge of a long axis of the  
panel, and  $R_{xc}$  is an inner curvature radius at a center of a long axis of the  
panel,  
wherein the mask is formed of either Fe-Ni based alloy or Fe-Ni-Co based  
alloy,  
wherein an a wedge ratio is 200% or more than.

14. (Currently Amended) ~~The color cathode ray tube of claim 1;~~

A color cathode ray tube comprising:

a panel of which an outer surface is substantially plane and an inner surface has a predetermined curvature; and

a mask for selecting colors of electron beams incident from inside of the panel,

in which a formula,  $0.3 \leq (R_{xe}/R_{xc}) \leq 0.75$  is satisfied,

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wherein  $R_{xe}$  is an inner curvature radius at an edge of a long axis of the panel, and  $R_{xc}$  is an inner curvature radius at a center of a long axis of the panel,

wherein a formula,  $R_{xe} \leq R_{de} \leq R_{ye}$  is satisfied,

wherein ~~the  $R_{xe}$  is an inner curvature radius at an edge of a long axis of the panel,~~ the  $R_{ye}$  is an inner curvature radius at an edge of a short axis of the panel, and ~~the~~  $R_{de}$  is an inner curvature radius at an edge of a diagonal axis of the panel.

15. (Currently Amended) ~~The color cathode ray tube of claim 2;~~

A color cathode ray tube comprising:

a panel of which an outer surface is substantially plane and an inner surface has a predetermined curvature; and

a mask for selecting colors of electron beams incident from inside of the panel,

in which a formula,  $0.3 \leq (R_{xe}/R_{xc}) \leq 0.75$  is satisfied,

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wherein  $R_{xe}$  is an inner curvature radius at an edge of a long axis of the panel, and  $R_{xc}$  is an inner curvature radius at a center of a long axis of the panel.

wherein the inner curvature radius is gradually decreased from a center portion of the panel towards a peripheral portion of the panel,

wherein a formula,  $R_{xe} \leq R_{de} \leq R_{ye}$  is satisfied,

wherein the  $R_{xe}$  is an inner curvature radius at an edge of a long axis of the panel, the  $R_{ye}$  is an inner curvature radius at an edge of a short axis of the panel, and the  $R_{de}$  is an inner curvature radius at an edge of a diagonal axis of the panel.

16. (Currently Amended) The color cathode ray tube of claim 7, wherein a formula,  $R_{xe} \leq R_{de} \leq R_{ye}$  is satisfied,

wherein the  $R_{xe}$  is an inner curvature radius at an edge of a long axis of the panel, and the  $R_{ye}$  is an inner curvature radius at an edge of a short axis of

~~the panel, and~~ Rde is an inner curvature radius at an edge of a diagonal axis of the panel.

17. (Currently Amended) ~~The color cathode ray tube of claim 1,~~  
~~A color cathode ray tube comprising:~~  
~~a panel of which an outer surface is substantially plane and an inner~~  
~~surface has a predetermined curvature; and~~  
~~a mask for selecting colors of electron beams incident from inside of the~~  
~~panel,~~  
in which a formula,  $0.3 \leq (R_{xe}/R_{xc}) \leq 0.75$  is satisfied,  

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~~wherein Rxe is an inner curvature radius at an edge of a long axis of the~~  
~~panel, and Rxc is an inner curvature radius at a center of a long axis of the~~  
~~panel,~~  
wherein a formula  $0.3 \leq (R_{ye}/R_{yc}) \leq 0.5$  is satisfied, and  
wherein the Rye is an inner curvature radius at ~~a center an edge~~ of a short axis of the panel, and the Ryc is an inner curvature radius at a center of a short axis of the panel.